

# Summer Academy UNIT OF STUDY

<b>“New and Improved” Thermochemistry</b>	
<b>Unit Title</b> <b>Length of Delivery of Unit</b> <b>Team Members</b>	<input checked="" type="checkbox"/> “New and Improved” Thermochemistry <input checked="" type="checkbox"/> (approximately 3 weeks; Mid- March) <input checked="" type="checkbox"/> Tom Rupel and Michelle Sackerson
<b>Unit Objective or Purpose:</b>	<input checked="" type="checkbox"/> To get students to gain a deeper understanding of the energy changes involved in chemical reactions
<b>Academic Goals &amp; Standards:</b> (We used Franklin’s K-12 Science Essential Knowledge and Skills )	B.4 Use mathematics to enhance scientific investigations, analysis, and explanations. B.5 Comprehend, develop and implement appropriate procedures used to conduct scientific investigations. B.9 Use mathematical calculation in a clear manner to show quantities of matter, energy, or force involved in physical and chemical processes. B.10 Categorize the types of energy (heat, sound, light, mechanical, chemical, nuclear) as kinetic or potential.
<b>Connection to district curriculum:</b> (Briefly describe how existing curriculum will be enhanced through this project.)	We will integrate differentiated web- based technology on to the thermochemistry unit of our Advanced Chemistry course.
<b>BRIEFLY highlight how each of the five strands are represented in the unit.</b>  Literacy, Tech Tools, Differentiation, Assessment, Information Literacy	Literacy: Through web- based documents and/ or printed text, students will be able to read for meaning and explanation of key concepts in the unit. Tech Tools: Students will create/manipulate computer based documents, images, and models Assessment: Various types of both formative and summative assessment strategies will be used. Differentiation: Based upon results of our formative assessment, lessons/activities can be modified for individual students or groups of students. Information Literacy: We will model and students will use appropriate internet resources in performing the assignments connected with this unit.